

Amendments To the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 Claim 1 (previously presented). A switch coupled between a plurality of host units and a
2 device for communicating there between and comprising:
- 3 a) a first serial advanced technology attachment (ATA) port including a first host
4 task file, coupled to a first host unit, the first host task file responsive to
5 commands sent by the first host unit, to the device;
- 6 b) a second serial ATA port, coupled to a second host unit including a second host
7 task file, the second host task file responsive to commands sent by the second host
8 unit, to the device;
- 9 c) a third serial ATA port, coupled to a device, for causing access, by the first or
10 second host units, to the device; and
- 11 d) an arbitration and control circuit, coupled to the first, second and third ports, for
12 selecting one of the first host or second host units to concurrently access the
13 device, through the switch, by accepting commands, from either of the first or
14 second host units, at any given time, including when the device is not in an idle
15 state.
- 1 Claim 2 (canceled).
- 1 Claim 3 (canceled).
- 1 Claim 4 (previously presented): A switch as recited in claim 1 wherein said third serial
2 ATA port includes a device task file.
- 1 Claim 5 (previously presented): A switch as recited in claim 1 wherein said first, second
2 and third ports are level 4 ports.
- 1 Claim 6 (original): A switch as recited in claim 1 wherein said device is a storage unit.
- 1 Claim 7 (original): A switch as recited in claim 1 wherein said switch is employed in an
2 enterprise system.
- 1 Claim 8 (canceled).

1 Claim 9 (original): A switch as recited in claim 1 wherein information, in the form of data,
2 commands or setup, is transferred from the device to the first or second host units
3 through the switch and the information is modified by the switch prior to being
4 received by the first or second host units such that modified information rather than
5 the information is received by the first or second host units.

1 Claim 10 (original): A switch as recited in claim 9 wherein the information is referred to as
2 'identify drive response'.

1 Claim 11 (original): A switch as recited in claim 9 wherein the information is referred to as
2 'Tag'.

1 Claim 12 (original): A switch as recited in claim 1 wherein information, in the form of data,
2 commands or setup, is transferred from the first or second host units to the device
3 through the switch and the information is modified by the switch prior to being
4 received by the device such that modified information rather than the information is
5 received by the device.

1 Claim 13 (original): A switch as recited in claim 12 wherein the information is referred to
2 as 'Tag'.

1 Claim 14 (original): A switch as recited in claim 12 wherein the arbitration and control
2 circuit include a Tag/Sactive Mapping Circuit for mapping a host tag to a device tag
3 and inverse mapping for identifying a host.

1 Claim 15 (original): A switch as recited in claim 1 wherein either the first or the second
2 host sends a legacy queue command queued by the device.

1 Claim 16 (previously presented): A switch as recited in claim 1 wherein either the first or
2 the second host sends a native queue command for execution thereof by the device.

- 1 Claim 17 (previously presented): A switch as recited in claim 16 wherein the Tag in the
2 native queue command is modified prior to sending to the Device to avoid using the
3 same Tag for both hosts and not to exceed the maximum allowed Tag value.
- 1 Claim 18 (previously presented): A switch as recited in claim 17 wherein the Tag
2 received in a FIS from the Device is modified to its original value prior to sending the
3 same to the Host.
- 1 Claim 19 (original): A switch as recited in claim 1 wherein the first, second and third ports
2 are level 3 serial ATA ports and a Data FIS FIFO and an associated FIFO Control are
3 coupled to the first, second and third ports and are located externally thereto.
- 1 Claim 20 (previously presented): A switch comprising:
2 a) a first serial advanced technology attachment (ATA) port including a first
3 host task file for connection to a first host unit, the first host task file
4 responsive to commands sent by the first host unit;
5 b) a second serial ATA port including a second host task file for connection to a
6 second host unit, the second host task file responsive to commands sent by the
7 second host unit;
8 c) a third serial ATA port for connection to a device; and
9 an arbitration and control circuit, coupled to the first, second and third ports, for
10 selecting either the first host unit or the second host unit to concurrently access the
11 device, through the switch, by accepting commands, from either of the first or second
12 host units, at any given time, including when the device is not in an idle state.
- 1 Claim 21 (original): A switch as recited in claim 20 wherein the switch is a serial ATA
2 switch.
- 1 Claim 22 (canceled).
- 1 Claim 23 (canceled).

- 1 Claim 24 (previously presented): A switch as recited in claim 21 wherein said third serial
2 ATA port includes a device task file.
- 1 Claim 25 (original): A switch as recited in claim 20 wherein said device is a storage unit.
- 1 Claim 26 (original): A switch as recited in claim 20 wherein said switch is employed in an
2 enterprise system.
- 1 Claim 27 (canceled).
- 1 Claim 28 (original): A switch as recited in claim 20 wherein information, in the form of
2 data, commands or setup, is transferred from the device to the first or second host
3 units through the switch and the information is modified by the switch prior to being
4 received by the first or second host units such that modified information rather than
5 the information is received by the first or second host units.
- 1 Claim 29 (original): A switch as recited in claim 28 wherein the information is referred to
2 as 'TAG'.
- 1 Claim 30 (original): A switch as recited in claim 28 wherein the information is referred to
2 as 'identity drive response'.
- 1 Claim 31 (original): A switch as recited in claim 20 wherein information, in the form of
2 data, commands or setup, is transferred from the first or second host units to the
3 device through the switch and the information is modified by the switch prior to being
4 received by the device such that modified information rather than the information is
5 received by the device.
- 1 Claim 32 (original): A switch as recited in claim 31 wherein the information is referred to
2 as 'Tag'.

1 Claim 33 (currently amended): A method of employing a switch coupled between a
2 plurality of host units and a device for communicating therebetween, the method
3 comprising:
4 a) coupling a first serial advanced technology attachment (ATA) port to a first
5 host unit;
6 b) coupling a second serial ATA port to a second host unit;
7 c) coupling a third serial ATA port to a device;
8 d) receiving commands through a first host task file;
9 e) receiving commands through a second host task file; and
10 f) selecting one of the first host or second host units to concurrently access the
11 device, through the switch, by accepting commands, through the first and second
12 host task files, from either of the first or second host units, at any given time,
13 including when the device is not in an idle state.

1 Claim 34 (previously presented): A method of employing a switch, as recited in claim 33,
2 further including the steps of transferring information, in the form of data, commands
3 or setup, from the device to the first or second host units through the switch and
4 modifying the information prior to the information being received by the first or
5 second host units such that modified information rather than the information is
6 received by the first or second host units.

1 Claim 35 (previously presented): A method of employing a switch, as recited in claim 34,
2 wherein the information is referred to as 'identify drive response'.

1 Claim 36 (previously presented): A method of employing a switch, as recited in claim 34,
2 wherein the information is referred to as 'Tag'.

1 Claim 37 (previously presented): A method of employing a switch, as recited in claim 34,
2 further including the steps of transferring information, in the form of data, commands
3 or setup, from the first or second host units to the device through the switch and

4 modifying the information by the switch prior to being received by the device such
5 that modified information rather than the information is received by the device.

1 Claim 38 (previously presented): A method of employing a switch, as recited in claim 37,
2 wherein the information is referred to as 'Tag'.

1 Claim 39 (previously presented): A method of employing a switch, as recited in claim 37,
2 wherein mapping a host tag to a device tag and inverse mapping for identifying a host.

1 Claim 40 (previously presented): A method of employing a switch, as recited in claim 34,
2 further including the step of sending a legacy queue command queued.

1 Claim 41 (previously presented): A method of employing a switch, as recited in claim 34,
2 further including the step of sending a native queue command for execution thereof
3 by the device.

1 Claim 42 (previously presented): A method of employing a switch, as recited in claim 41,
2 wherein modifying the Tag in the native queue command prior to sending to the
3 Device to avoid using the same Tag for both hosts.

1 Claim 43 (previously presented): A method of employing a switch, as recited in claim 42,
2 wherein modifying the Tag received in a FIS from the Device prior to sending the
3 same to the Host.